

# ANDREA GRIESER

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## SUMMARY OF QUALIFICATIONS

A variety of experience highlights the following strengths: secure in software engineering and technical environments; strong teacher, writer, and communicator; self-motivator who takes initiative and enjoys learning new skills

## WORK HISTORY

### **Antithesis Operations LLC, McLean, VA - July 2020 - present**

- Autonomous Software Testing company
- Senior Software Engineer
- Write software in C, C++, Python, Typescript
- Other technical skills: linux, bash, nix, sphinx, Google Cloud Platform, BigQuery, mercurial

### **Math / Coding Teacher, Loudoun County Public Schools; Ashburn, VA 2009-2020**

- Taught Pre-Algebra, Algebra 1, Algebra 2/Trigonometry, Geometry, and Coding at Middle School (teaching Scratch and Python)
- Created complete curricula for all of the courses that I have taught. Other teachers use these curricula and the principal has lauded them as a prime reason for our school's strong test results
- Responsibilities include lesson planning with technology integration, differentiation (personalized learning), real world learning, teaching, testing, remediation, data tracking, new teacher mentoring, and faculty support
- Led cooperative teacher teams introducing Trello to track schedule and lesson plans
- Created many instructional videos on the YouTube platform that have reach outside of immediate school environment
- Created online classrooms for all courses taught, including self-grading assignments and assessments; especially necessary during closing of schools during COVID pandemic
- Consistently received highest ratings on evaluations

### **Grieser Software LLC; Ashburn, VA 2001-2009**

- Co-founded consulting company that provided original software to Sirius Satellite Radio, Inc.
- Wrote software using distributed .NET architecture using SQL database and web services
- Prime responsibility was user interface
- Provided all technical writing support in the form of manuals, training, and other material
- Provided on-site training and support

### **Storm Control Systems (L-3 Communications) 1991-1998**

- Worked in Herndon, VA and Cambridgeshire, UK offices

- Developed software to support Inmarsat satellite controllers on Unix based operating systems using Gensym's G2 Real-Time Expert System Application, the C programming language, and an SQL database
- Wrote all technical documentation for Storm flagship satellite control product, including user and developer guides as well as training materials for satellite control automation product

#### **International Business Machines; Gaithersburg, MD    1985-1991**

- Created software (design, code, and test) in the JOVIAL and Ada programming languages in support of a government satellite control system
- Supported the creation of specification documents and training materials, as well as provided training to operators
- Technical lead of software test (quality assurance) for software configuration management development project
- Project manager for on-site customer in Sunnyvale CA

#### **Fairchild Republic Company; Farmingdale, NY - 1981-1984**

- Internship during summers
- Created FORTRAN programs in support of aerospace engineers

#### **TECHNICAL SKILLS**

- Programming language experience: Python, C, C++, JavaScript, Visual Basic, Swift, FORTRAN, JOVIAL
- OS Experience: Windows, macOS, Unix, iOS, iPadOS, IBM 360/370 architecture
- Other technical experience: HTML, CSS, JQuery, Bootstrap, Express, Node.js, Atom, Trello, git, SQL relational databases, G2 knowledge base (rule based architecture), Xcode (iOS app development in Swift), git, Google G-Suite products, Apple Teacher, Google Certified Educator Level 1

#### **CODE SAMPLE**

- [Play the Royal Game of Ur](#)
- Web app using JavaScript, HTML, CSS, JQuery, Bootstrap, Node.js (computer moves handled on server); computer play algorithms have varying levels of complexity
- [Code repository](#)

#### **EDUCATION**

- Marymount University — Master of Education, 2009
- State University of New York at Binghamton - BS in Mathematics and Computer Science, 1984

[My Website](#)